

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-08-24 15:40:39
 Date of Next Testing: 2026-08-23 15:40:39
 Product Name: **1,3-Propanediol**
 CAS Number: 504-63-2
 Specifications & Purity: $\geq 98\%$
 Lot #: H2218644
 SKU #: **P108208**
 Version: **0**
 Analysis #: **122137**
 Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.438-1.441	1.43900
Purity(GC)	98-100 (%)	98.63500 %
Density (20°C)	1.053-1.056	1.05480
Water by Karl Fischer	0-0.5 (%)	0.01650 %
Appearance (P108208)	Colorless to Yellow Viscous Liquid	Colorless to Yellow Viscous Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager